

# Tiaozhao Bu

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

1,879  
citations

279778

23  
h-index

361001

35  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1621  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Investigating the effect of nanoscale triboelectrification on nanofriction in insulators. <i>Nano Energy</i> , 2022, 91, 106620.  | 16.0 | 7         |
| 2  | Raindrop energy-powered autonomous wireless hyetometer based on liquidâ€“solid contact electrification. <i>Microsystems and Nanoengineering</i> , 2022, 8, 30.                                  | 7.0  | 33        |
| 3  | An ultraweak mechanical stimuli actuated single electrode triboelectric nanogenerator with high energy conversion efficiency. <i>Nanoscale</i> , 2022, 14, 7906-7912.                           | 5.6  | 3         |
| 4  | Friction-Dominated Carrier Excitation and Transport Mechanism for GaN-Based Direct-Current Triboelectric Nanogenerators. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 24020-24027. | 8.0  | 33        |
| 5  | Ferromagneticâ€“Based Chargeâ€“Accumulation Triboelectric Nanogenerator With Ultrahigh Surface Charge Density. <i>Small</i> , 2022, 18, .   | 10.0 | 11        |
| 6  | Comparison of applied torque and energy conversion efficiency between rotational triboelectric nanogenerator and electromagnetic generator. <i>IScience</i> , 2021, 24, 102318.                 | 4.1  | 32        |
| 7  | Frequency Band Characteristics of a Triboelectric Nanogenerator and Ultra-Wide-Band Vibrational Energy Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 26084-26092.       | 8.0  | 53        |
| 8  | Effects of interfacial acidâ€“base on the performance of contactâ€“separation mode triboelectric nanogenerator. <i>Materials Today Energy</i> , 2021, 20, 100686.                               | 4.7  | 8         |
| 9  | Self-powered artificial joint wear debris sensor based on triboelectric nanogenerator. <i>Nano Energy</i> , 2021, 85, 105967.   | 16.0 | 21        |
| 10 | <sc>Oneâ€“stop</sc> fabrication of triboelectric nanogenerator based on <sc>3D</sc> printing. <i>EcoMat</i> , 2021, 3, e12130.  | 11.9 | 23        |
| 11 | Multidimensional Force Sensors Based on Triboelectric Nanogenerators for Electronic Skin. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 56320-56328.                                | 8.0  | 30        |
| 12 | A Leaf-Shaped Triboelectric Nanogenerator for Multiple Ambient Mechanical Energy Harvesting. <i>IEEE Transactions on Power Electronics</i> , 2020, 35, 25-32.                                   | 7.9  | 36        |
| 13 | Overview of Power Management for Triboelectric Nanogenerators. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900129.  | 6.1  | 40        |
| 14 | Overview of micro/nano-wind energy harvesters and sensors. <i>Nanoscale</i> , 2020, 12, 23929-23944.  | 5.6  | 38        |
| 15 | Network Topology Optimization of Triboelectric Nanogenerators for Effectively Harvesting Ocean Wave Energy. <i>IScience</i> , 2020, 23, 101848.   | 4.1  | 29        |
| 16 | Highâ€“Resolution Monolithic Integrated Tribotronic InGaZnO Thinâ€“Film Transistor Array for Tactile Detection. <i>Advanced Functional Materials</i> , 2020, 30, 2002613.                       | 14.9 | 30        |
| 17 | Nanoscale triboelectrification gated transistor. <i>Nature Communications</i> , 2020, 11, 1054.   | 12.8 | 15        |
| 18 | Tribovoltaic Effect on Metalâ€“Semiconductor Interface for Directâ€“Current Lowâ€“Impedance Triboelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2020, 10, 1903713.                 | 19.5 | 115       |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Intrinsically Stretchable Organic-Triboelectric-Transistor for Tactile Sensing. <i>Research</i> , 2020, 2020, 1398903.  | 5.7  | 30        |
| 20 | Triboelectric Effect-Driven Liquid Metal Actuators. <i>Soft Robotics</i> , 2019, 6, 664-670.  | 8.0  | 18        |
| 21 | Torus structured triboelectric nanogenerator array for water wave energy harvesting. <i>Nano Energy</i> , 2019, 58, 499-507.  | 16.0 | 109       |
| 22 | Triboelectric micromotors actuated by ultralow frequency mechanical stimuli. <i>Nature Communications</i> , 2019, 10, 2309.   | 12.8 | 112       |
| 23 | Remarkable merits of triboelectric nanogenerator than electromagnetic generator for harvesting small-amplitude mechanical energy. <i>Nano Energy</i> , 2019, 61, 111-118. | 16.0 | 144       |
| 24 | Tribotronics for Active Mechanosensation and Self-Powered Microsystems. <i>Advanced Functional Materials</i> , 2019, 29, 1808114.   | 14.9 | 35        |
| 25 | Self-Powered Electrostatic Adsorption Face Mask Based on a Triboelectric Nanogenerator. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 7126-7133.              | 8.0  | 157       |
| 26 | Flexure hinges based triboelectric nanogenerator by 3D printing. <i>Extreme Mechanics Letters</i> , 2018, 20, 38-45.  | 4.1  | 31        |
| 27 | Stretchable Triboelectric "Photonic Smart Skin for Tactile and Gesture Sensing. <i>Advanced Materials</i> , 2018, 30, e1800066.   | 21.0 | 205       |
| 28 | Compressible hexagonal-structured triboelectric nanogenerators for harvesting tire rotation energy. <i>Extreme Mechanics Letters</i> , 2018, 18, 1-8.                     | 4.1  | 96        |
| 29 | Tribotronic bipolar junction transistor for mechanical frequency monitoring and use as touch switch. <i>Microsystems and Nanoengineering</i> , 2018, 4, 25.               | 7.0  | 16        |
| 30 | Liquid Metal Gated Tribotronic Transistors as an Electronic Gradiometer for Angle Measurement. <i>Advanced Electronic Materials</i> , 2018, 4, 1800269.                   | 5.1  | 14        |
| 31 | Self-Powered Hall Vehicle Sensors Based on Triboelectric Nanogenerators. <i>Advanced Materials Technologies</i> , 2018, 3, 1800140.                                       | 5.8  | 32        |
| 32 | Ultrahigh charge density realized by charge pumping at ambient conditions for triboelectric nanogenerators. <i>Nano Energy</i> , 2018, 49, 625-633.                       | 16.0 | 261       |
| 33 | Soft Tubular Triboelectric Nanogenerator for Biomechanical Energy Harvesting. <i>Advanced Sustainable Systems</i> , 2018, 2, 1800081.                                     | 5.3  | 30        |
| 34 | Embedded Triboelectric Active Sensors for Real-Time Pneumatic Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 32352-32358.                           | 8.0  | 22        |